

CLEAN VERSION

Claims

1. A device for taking and examining samples, comprising a housing (50) in which a cartridge (30), a testing means (40) and a sample-taking means (10) are positioned, wherein the cartridge (30) is displaceable within the housing (50) in such a manner that a sample introduced by means of the sample-taking means (10) can be mixed with a content of the cartridge (30) and wherein the testing means (40) is displaceable within the housing (50) in such a manner that the testing means (40) can be brought in contact with the sample mixture for analyzing the sample mixture.
2. The device according to claim 1, wherein the sample-taking means (10) can be introduced into an open end of the housing (50) and preferably comprises a steep thread (18) which cooperates with a corresponding internal thread (53) in the housing (50).
3. The device according to claim 1 or 2, wherein the sample-facing end of the sample-taking means (10) comprises a sample chamber (20).
4. The device according to claim 3, wherein the sample-taking means (10) consists of two half-tubes (11, 12) which are connected with each other preferably at the handle-facing end by means of a joint, preferably a film hinge, or an elastic web (13).
5. The device according to claim 3 or 4, wherein at least one of the two half-tubes (11, 12) comprises at its sample-facing end a first and a second disk (21, 22) limiting the sample chamber (20).
6. The device according to claim 5, wherein the sample-facing disk (21) comprises a sieve (26), an indentation (25) is preferably formed in the disk and preferably at the edge a cone-shaped ring (24) is attached, wherein the disk is connected to the sample-taking means (10) preferably by predetermined breaking points (23).
7. The device according to any one of claims 1 to 6, wherein one end of the cartridge (30) comprises an opening (32) which can be closed by means of a ball (33).
8. The device according to any one of claims 1 to 7, wherein the cartridge (30)

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has a bottom (34) which can be perforated.

9. The device according to claim 7 or 8, wherein the cartridge (30) is shaped cylindrically and comprises on one end a truncated cone (31) which can be engaged with the cone-shaped ring (24) on the sieve (26) of the sample-taking means (10), wherein the ban (33) contacts the indentation (25).
10. The device according to any one of claim 1 to 9, wherein the testing means has the shape of a cylinder whose cartridge-facing end tapers in the form of a truncated cone (41) and the tip thereof has preferably an opening (42).
11. The device according to any one of claims 1 to 10, wherein the testing means (40) can be brought in contact with the content of the cartridge (30) if the sample-taking means (10) is arranged in the housing.
12. A kit for preparing a ready-to-use device for taking and examining samples comprising
 - (a) a sample-taking means (10) for taking a sample,
 - (b) a housing (50) with a cartridge (30) arranged therein, and
 - (c) a testing means (40),wherein the sample-taking means (10) and the testing means (40) are introducible into the housing (50) and the testing means (40) can additionally be displaced after having been introduced into the housing (50).